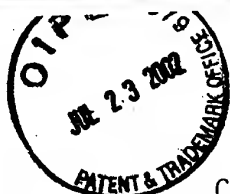




GAATTCGGCACGAGGTTTTTTTTTTTTTTTTTCCCTCTTTCTTTCTTTTCTTTTGCC
-----+-----+-----+-----+-----+-----+ 60
1
ATCCGAAAGAGCTGTCAGCCGCCGCCGGGCTGCACCTAAAGGCGTCGGTAGGGGGATAAC
-----+-----+-----+-----+-----+-----+ 120
61
AGTCAGAGACCCTCCTGAAAGCAGGAGACGGGACGGTACCCCTCCGGCTCTGCGGGGCGG
-----+-----+-----+-----+-----+-----+ 180
121
CTGCGGCCCCCTCCGTTCTTTCCCCCTCCCCGAGAGACACTCTTCCTTTCCCCCACGAAG
-----+-----+-----+-----+-----+-----+ 240
181
ACACAGGGGCAGGAACGCGAGCGCTGCCCTCCGCCATGGGAGGCCGCTTCCTGCTGACG
-----+-----+-----+-----+-----+-----+ 300
241
CTCGCCCTCCTCTCGGCGCTGCTGTGCCGCTGCCAGGTTGACGGCTCCGGGGTGTTTCGAG
-----+-----+-----+-----+-----+-----+ 360
301
CTGAAGCTGCAGGAGTTTGTCAACAAGAAGGGGCTGCTCAGCAACCGCAACTGCTGCCGG
-----+-----+-----+-----+-----+-----+ 420
361
GGGGGCGGCCCCGGAGGCGCCGGGCAGCAGCAGTGGCACTGCAAGACCTTCTTCGCGTC
-----+-----+-----+-----+-----+-----+ 480
421
TGCCTGAAGCACTACCAGGCCAGCGTCTCCCCGAGCCGCCCTGCACCTACGGCAGCGCC
-----+-----+-----+-----+-----+-----+ 540
481
ATCACCCCGTCCTCGGCGCCAACTCCTTCAGCGTCCCCGACGGCGGGGCGGCGCCGAC
-----+-----+-----+-----+-----+-----+ 600
541
CCCGCCTTCAGCAACCCCATCCGCTTCCCCTTCGGCTTCACCTGGCCCGGCACCTTCTCG
-----+-----+-----+-----+-----+-----+ 660
601
CTCATCATCGAGGCTCTGCACACCGACTCCCCGACGACCTCACCACAGAAAACCCCGAG
-----+-----+-----+-----+-----+-----+ 720
661
CGCCTCATCAGCCGCTGGCCACCCAGAGGCACCTGGCGGTGGGCGAGGAGTGGTCCCAG
-----+-----+-----+-----+-----+-----+ 780
721
GACCTGCACAGCAGCGGCCGCACCGACCTCAAGTACTCCTATCGCTTGTGTGTGATGAG
-----+-----+-----+-----+-----+-----+ 840
781

FIG. 1A1



Serial No. 09/100,591
Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

FILED 09/31/02

841 CACTACTACGGGGAAGGCTGCTCTGTCTTCTGCCGGCCCCGTGACGACCGCTTCGGTCAC 900
-----+-----+-----+-----+-----+-----+-----+-----+
901 TTCACCTGTGGAGAGCGTGGCGAGAAGGTCTGCAACCCAGGCTGGAAGGGCCAGTACTGC 960
-----+-----+-----+-----+-----+-----+-----+-----+
961 ACTGAGCCGATTTGCTTGCCTGGGTGTGACGAGCAGCACGGCTTCTGCGACAAACCTGGG 1020
-----+-----+-----+-----+-----+-----+-----+-----+
1021 GAATGCAAGTGCAGAGTGGGTTGGCAGGGGCGGTACTGTGACGAGTGCATCCGATACCCA 1080
-----+-----+-----+-----+-----+-----+-----+-----+
1081 GGCTGCCTGCACGGTACCTGTCAGCAGCCATGGCAGTGCAACTGCCAGGAAGGCTGGGGC 1140
-----+-----+-----+-----+-----+-----+-----+-----+
1141 GGCTTTTCTGCAACCAGGACCTGAACTACTGCACTCACCACAAGCCATGCAAGAATGGT 1200
-----+-----+-----+-----+-----+-----+-----+-----+
1201 CGGTGTACGTGGTTGTGGCCAGTCCCCTCGATGTGAACAAGAACGGCTGGACCCATGTGT 1260
-----+-----+-----+-----+-----+-----+-----+-----+
1261 GGCTCCAGCTGCGAGATTGAAATCAACGAATGTGATGCCAACCCTTGCAAGAATGGTGGA 1320
-----+-----+-----+-----+-----+-----+-----+-----+
1321 AGCTGCACGGATCTCGAGAACAGCTATTCTGTACCTGCCCCCAGGCTTCTATGGTAAA 1380
-----+-----+-----+-----+-----+-----+-----+-----+
1381 AACTGTGAGCTGAGTGCAATGACTTGTGCTGATGGACCGTGCTTCAATGGAGGGCGATGC 1440
-----+-----+-----+-----+-----+-----+-----+-----+
1441 ACTGACAACCCTGATGGTGGATACAGCTGCCGCTGCCCACTGGGTTATTCTGGGTTCAAC 1500
-----+-----+-----+-----+-----+-----+-----+-----+
1501 TGTGAAAAGAAAATCGATTACTGCAGTTCCAGCCCTTGCTAATGGAGCCCAGTGCGTT 1560
-----+-----+-----+-----+-----+-----+-----+-----+
1561 GACCTGGGGAACCTCCTACATATGCCAGTGCCAGGCTGGCTTCACTGGCAGGCACTGTGAC 1620
-----+-----+-----+-----+-----+-----+-----+-----+
1621 GACAACGTGGACGATTGCGCCTCCTTCCCCTGCGTCAATGGAGGGACCTGTCAGGATGGG 1680
-----+-----+-----+-----+-----+-----+-----+-----+

FIG. 1A2



1681 GTCAACGACTACTCCTGCACCTGCCCCCGGGATACAACGGGAAGAACTGCAGCACGCCG + 1740
-----+-----+-----+-----+-----+-----+-----+
1741 GTGAGCAGATGCGAGCACAAACCCTGCCACAATGGGGCCACCTGCCACGAGAGAAGCAAC + 1800
-----+-----+-----+-----+-----+-----+-----+
1801 CGCTACGTGTGCGAGTGCGCTCGGGGCTACGGCGGCCTCAACTGCCAGTTCCTGCTCCCC + 1860
-----+-----+-----+-----+-----+-----+-----+
1861 GAGCCACCTCAGGGGCCGGTCATCGTTGACTTCACCGAGAAGTACACAGAGGGCCAGAAC + 1920
-----+-----+-----+-----+-----+-----+-----+
1921 AGCCAGTTTCCCTGGATCGCAGTGTGCGCCGGGATTATTCTGGTCCTCATGCTGCTGCTG + 1980
-----+-----+-----+-----+-----+-----+-----+
2401 TACCAGTCGGTGTACGTATATCAGAAGAGAAAGATGAGTGCATCATAGCAACTGAGGTG + 2460
-----+-----+-----+-----+-----+-----+-----+
2461 TAAAACAGACGTGACGTGGCAAAGCTTATCGATACCGTCATCAAGCTT + 2508
-----+-----+-----+-----+-----+-----+-----+

FIG. 1A3



FIG. 1B1



Serial No. 09/103,931
Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

072302

1795 AGCAACCGCTACGTGTGGAGTGGCTCGGGGCTACGGGGGCTCACTGCCAGTTCCTGCTCCCCGAG 1863
1864 CCACCTCAGGGGCGGTTCATGTTGACTTACCGAGAAGTACACAGAGGGCCAGAACAGCCAGTTTCCC 1932
1933 TGGATCGCAGTGTGCGCGGGATTATCTGCTCCTCATGCTGCTGCTGGTTGGCCGCCCATCGTCGTC 2001
2002 TGGCTCAGGCTGAAGGTGCAGAGAGGCCACACAGCCGAGGCTGCAGGAGTGAACGGAGACCATG 2070
2071 AACAACTGGCGAAGTCCAGCGCGAGAGGACATCTCCATCAGGCTCATCGGTGCCACTCAGATTAAA 2139
2140 AACACAAATAGAAAGTAGACTTTCACAGCGATACTCCGATAAAAACGGCTACAAAGTTAGATACCCA 2208
2209 TCAGTGGATTACAA TTTGGTGATGAATCAAGATGAGGACTCTGTGAAGAGGAGCATGGCAAAATGC 2277
2278 GAAGCCAAGTGTGAACGTATGATTCAGAGGAGAGAGAAAGCGCAGTACAGTAAAAGTAGTGAC 2346
2347 ACTTCTGAAAGAAACGGCCAGATTTCAGTATATTCACCTTCAAGGACACAAAGTACCAGTCGGTGAC 2415
2416 GTCATATCAGAAGAGAAAGATGAGTGATCATAGCAACTGAGGTAGTATCCACCTGGCAGTCGGACA 2484
2485 AGTCTTGGTGTGATTCCCATCCAGCGCAGGTACGGCGGCCAAACCATTTACCTGCTGCCACAGTC 2553
2554 ATCTGTACCCCAATGAAACCTGGCCACCTTCAGTCTGTGGCACTGCAGAGTTGAAAAAATGTTGTGG 2622
2623 ATTAACATAAGCTCCAGTGGGGGTTACAGGGACAGCAATTTTTCAGGCAAGGGTATAACTGTAGTGCA 2691
2692 GTTGTAGCTTAACTAACCTACTGACTCATTTTCGTTGCTTCCTGCAGAGCCTGTTTTTGTGTCGCA 2760
2761 TTGAGGTGAAGTCCCTGACCCCTGTCATCCTCATAGTCTCTGCTTTCTTTTATTAACTCTCTCTGTC 2829
2830 TCTGCTTGTGTTTTCTCTCAACAGGTGTAAACAGACGTGACGTGGCAAGCTT 2883

FIG. 1B2



Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

11783931.072302

1 MGGRFLLTLA LLSALLCRCQ VDGSVFEK LQEFVNKKGL LSNRNCCRGG GPGGAGQQQC
61 DCKTFFRVCL KHYQASVSPE PPCTYGSAIT PVLGANSFSV PDGAGGADPA FSNPIRFPFG
121 FTWPGTFSLI IEALHTDSPD DLTENPERL ISRLATQRHL AVGEEWSQDL HSSGRTDLKY
181 SYRFVCDEHY YGEGCSVFCR PRDDRFHFT CGERGEKVCN PGWKGYCTE PICLPGCDEQ
241 HGFCDKPGEC KCRVGWQGRY CDECIRYPGC LHGTCQQPWQ CNCQEGWGL FCNQLNYCT
301 HHKPCNGAT CTNTGQGSYT CSCRPGYTGS SCEIEINECD ANPCKNGGSC TDLENSYSCT
361 CPPGFYGNKC ELSAMTCADG PCFNNGRCTD NPDGGYSCRC PLGYSGFNCE KKIDYCSSP
421 CANGAQCVDL GNSYICQCA GFTGRHCDDN VDDCASFCV NGGTCQDGVN DYSCTCPPGY
481 NGKNCSTPVS RCEHNPCHNG ATCHERSNRY VCECARGYGG LNCQFLLPEP PQGPVIVDFT
541 EKYTEGQNSQ FPWIAVCAGI ILVLMLLG CAAIVVCVRLK VQKRHHQPEA CRSETETMNN
601 LANCQREKDI SISVIGATQI KNTNKKVDFH SDNSDKNGYK VRYPSVDYNL VHELKNEDSV
661 KEEHGKCEAK CETYDSEAE KSAVQLKSSD TSERKRPSV YTSKDTKYQ SVYVISEEKD
721 ECIIATEV

FIG. 2

FIG. 3A

[illegible]

FIG. 3B



Serial NO. US 7,000,000
 Inventor(s): ISH-HOROWICZ ET AL
 Title: "ANTIBODIES TO VERTEBRATE DELTA
 PROTEINS AND FRAGMENTS"

15,799,931.072302

C-Delta-1	184	V-CDEHYIGE	GCSVFCRPRD	DRFGHFTCGE	RGEKVCNPGW	RQQYC	228
Delta	182	VTCDLNYYGS	GCAKFCRPRD	DSFGHSTCSE	TGEIICLTGW	QGDYC	226
Serrate	235	VQCAVTYYNT	TCTTFCRPRD	DQFGHYACGS	EQKLCCLNGW	QGVNC	279
C-Serrate-1		VTCAEHYYGF	GCNKFRCRPRD	DEFTHTTCDQ	NGNKTCLEGW	TGPEC	
Apex-1	130	NLCSSNTHGK	RCNRYCIAN-	AKLHWE-CST	HGVRRCsAGW	SGEDC	172
Lag-2	120	VTCAARNYFGN	RCENFCDAHL	AKAARKRCDA	MGRRLRCDIGW	MGPHC	166

FIG. 4



Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

15,793,931.072302



FIG.5A

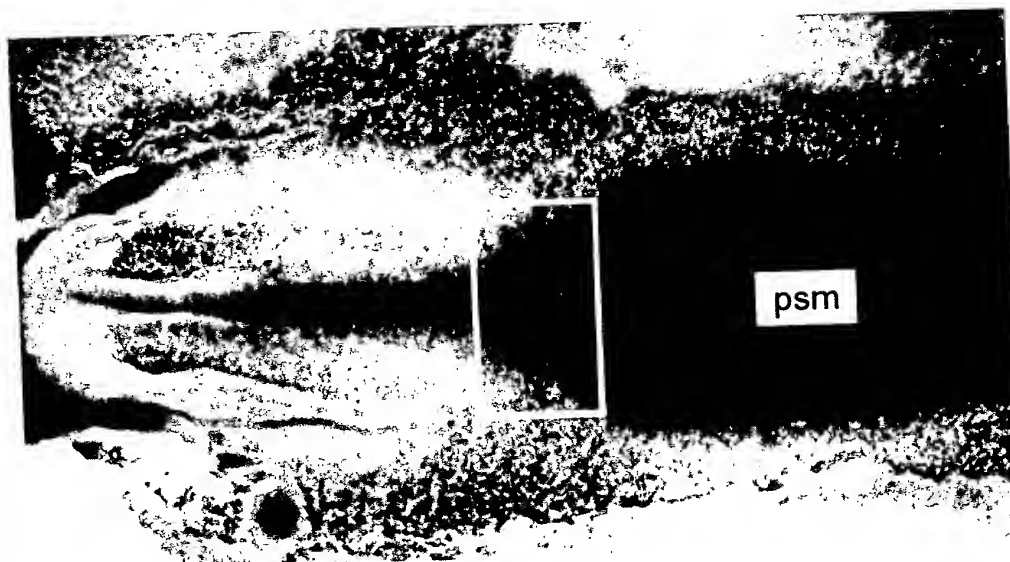


FIG.5B

Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"



FIG.5C



FIG.5D



Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

072302



FIG.5E

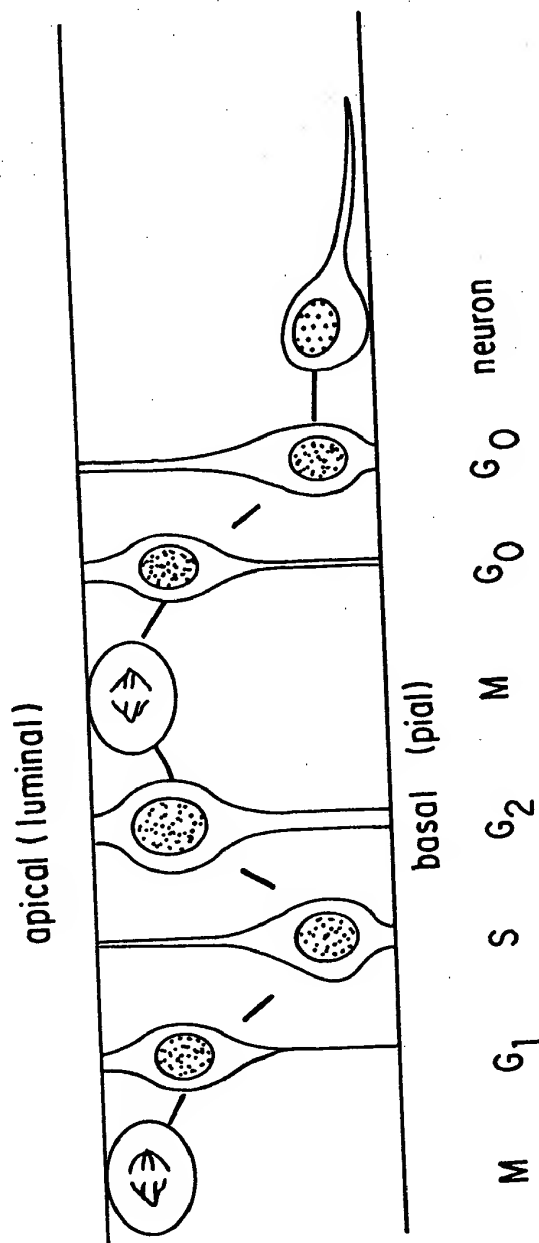


FIG. 6A



Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS" 10783931.072302

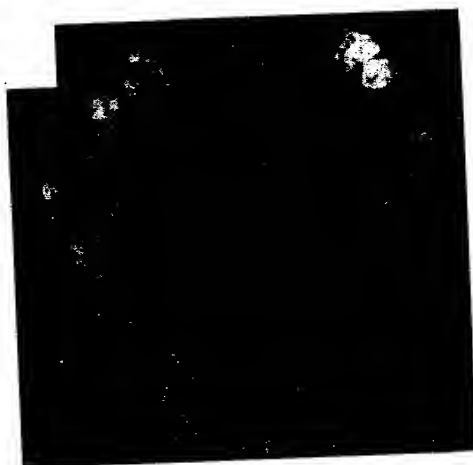


FIG.6B

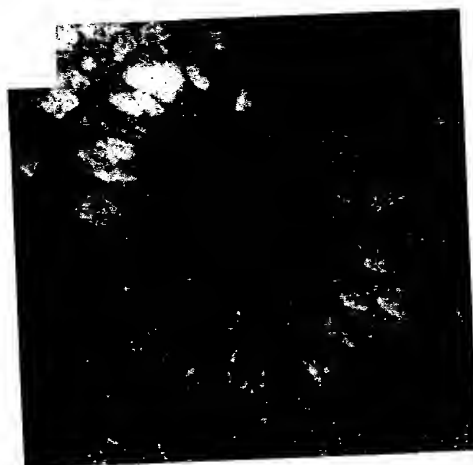


FIG.6C



CTGCAGGAAT TCSMYCGCAT GCTCCCGGCC GCCATGGGCC GTCGGAGCGC GCTAGCCCTT
GCCGTGGTCT CTGCCCTGCT GTGCCAGGTC TGGAGCTCCG GCGTATTGA GCTGAAGCTG
CAGGAGTTCG TCAACAAGAA GGGCTGCTG GGAACCGCA ACTGCTGCCG CCGGGCTCT
GGCCCGCCTT GCGCTGCAG GACCTTCTTT CACCTACGGC AGTGCCGTCA CGCCAGTGCT GGTGTGCGAC
GTGTCACCGG AGCCACCCCTG TGCCTGATGG CGCAGGCATC GACCCCGCCT TCAGCAACCC CATCCGATTC
TCCTTCAGCC TCACCTGGCC AGGTACCTTC AGAAACTCA GAAAGACTCA TCAGCCGCCT GACCACACAG
CCCTTCGGCT ACCTCGCAAC AGAATGGTCT CAGGACCTTC ACAGTAGCGG CCGCACAGAC
TCTCCCGATG CTGTGGGAGA CTTACCGGTT TGTGTGTGAC GAGCACTACT ACGGAGAAGG TTGCTCTGTG
AGCACCTCA CTACCGGTT CTCGGGATGA CCGCTTTGGC CACTTCACCT GCGGGGACAG AGGGAGAAAG
CTCCGGTACT CTCGGGATGA CCGCTTTGGC CACTTCACCT TGCACGTGACC CAATCTGTCT GCCAGGGTGT
TTCTGCCGAC CTGGCTGGAA ATGGATACTG TGACAAACCA AGGAGGTGCA AGTGCAGAGT TGGCTGGCAG
ATGTGCGACC ATGGATACTG TGACAAACCA AGGAGGTGCA AGTGCAGAGT TCCATGGCAC CTGCCAGCAA
GATGACCAAC GCGATGAGTG GTAACTGCCA ACCATAAGCC GTGCAGGAAT GGAGCCACCT GCACCAACAC ACTGTGAGCT GGAAGTAGAT
GGCCGCTACT GCGATGAGTG GTAACTGCCA ACCATAAGCC GTGCAGGAAT GGAGCCACCT GCACCAACAC ACTGTGAGCT GGAAGTAGAT
CCCTGGCAGT GTAACTGCCA ACCATAAGCC GTGCAGGAAT GGAGCCACCT GCACCAACAC ACTGTGAGCT GGAAGTAGAT
TACTGTACTC ACCATAAGCC GTGCAGGAAT GGAGCCACCT GCACCAACAC ACTGTGAGCT GGAAGTAGAT
AGCTACACAT GTTCCTGCCG CTAGCCCTCG CTTCTATGGC CAAGAACGGA GCGAGCTGCA CCGACCTTGA GGACAGCTTC
GAGTGTGCTC GCGCTCCCGG CTTCTATGGC CAAGAACGGA GCGAGCTGCA CCGACCTTGA AGCTGAGCGC CATGACCTGT
TCTTGACACT CTTGCTTCAA TGGAGGACGA TGTTACAGATA ACCCTGACCG AGCTGACCGG AGGCTACACC
GCAGATGGCC CTTGCTTCAA TGGAGGACGA TGTTACAGATA ACCCTGACCG AGCTGACCGG AGGCTACACC
TGCCATTGCC CTTGCTTCAA TGGAGGACGA TGTTACAGATA ACCCTGACCG AGCTGACCGG AGGCTACACC
TCTTCCCTTT GTTCTAACGG TGCCAAAGTGT GTGGACCTCG GCAACTCTTA CCTGTGCCCG
TGCCAGGCTG GCTTCTCCCG GAGGTACTGC GAGGACAAATG TGGATGACTG TGCCTCCTCC

FIG. 7A



Serial No. 09703,931
Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA PROTEINS AND FRAGMENTS"

1448
1500
1560
1620
1680
1740
1800
1860
1920
1980
2040
2100
2160
2220
2280
2340
2400
2460
2520
2580
2640
2692

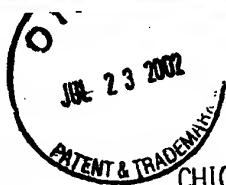
CCGTGTGCAA ATGGGGGCAC CTGCCGGGAC AGTGTGAACG ACTTCTCCTG TACCTGCCCA
CCTGGCTACA CGGCAAGAA CTGCAGCGCC CCTGTACAGCA GGTGTGAGCA TGCACCCCTGC
CATAATGGG CCACCTGCCA CCAGAGGGG CAGCGCTACA TGTGTAGTG CGCCAGGGC
TATGGCGGCC CCAACTGCCA GTTCTGCTC CCTGAGCCAC CACCAGGCC CATGTGGTG
GACCTCAGTG AGAGGCATAT GGAGAGCCAG GCGGGCCCT TCCCTGGGT GGCGTGTGT
GCCGGGTGG TGCTTGTCCT CCTGCTGCTG CTGGGCTGT CTGCTGTGGT GGTCTGCCGTC
CGGCTGAAGC TACAGAAACA CCAGCCTCCA CCTGAACCT GTGGGGGAGA GACAGAAACC
ATGAACAACC TAGCCAATTG CCAGCGCGAG AAGGACGTTT CTGTTAGCAT CATGGGGCT
ACCCAGATCA AGAACACCAA CAAGAAGCG GACTTTCACG GGGACCATGG AGCCGAGAAG
AGCAGCTTA AGGTCCGATA CCCACTGTG GACTATAACC TCGTTCGAGA CCTCAAGGA
GATGAAGCCA CGGTACGGGA TACACACAGC AAACGTGACA CCAAGTGCCA GTCACAGAGC
TCTGCAGGAG AAGAGAAAGT CGCCCAACA CTTAGGGGTG GGGAGATTCC TGACAGAAAA
AGGCCAGAGT CTGTCTACTC TACTTCAAAG GACACCAAGT ACCAGTCGGT GTATGTTCTG
TCTGCAGAAA AGGATGAGTG TGTATAGCG ACTGAGGTGT AAGATGGAAG CGATGTGGCA
AAATTCCCAT TTCTCTTAAA TAAATTCCA AGGATATAGC CCCGATGAAT GCTGCTGAGA
GAGGAAGGGA GAGGAAACCC AGGACTGCT GCTGAGAAC CAGTTCAGGC GAACGTGGTT
CTCTCAGAGT TAGCAGAGGC GCCCGACACT GCCAGCCTAG GCTTTGGCTG CCGCTGGACT
GCCTGCTGGT TGTTCCCATT GCACTATGGA CAGTTGCTTT GAAGAGTATA TATTTAAATG
GACGAGTGAC TTGATTCATA TAGGAAGCAC GCACTGCCCA CACGTCTATC TTGGATTACT
ATGAGCCAGT CTTTCCCTTGA ACTAGAAACA CAACTGCCCTT TATTGTCCTT TTTGATACTG
AGATGTGTT TTTTTTTTTC CTAGACGGGA AAAAGAAAC GTGTGTTATT TTTTGTGGGA
TTTGTAAAAA TATTTTTCAT GATTATGGGA GAGCTCCCAA CGCGTTGGAG GT

FIG. 7B



50 MGRRSALALA VVSALLCQVW SSGVFELKLQ EFVNKKGLLG NRNCCRGSGS
100 PPCACRTFFR VCLKHYQASV SPEPPCTYGS AVTPVLGVDS FSLPDGAGID
150 PAFSNPIRFP FGFTWPGTFS LII EALHTDS PDDLATENPE RLISRLTTQR
200 HLTVGEWSQ DLHSSGRDLD RYSYRFVCD E HYGEGCSVF CRPRDDAFGH
250 FTCGDRGEM CDPGWKGQYC TDPICLP GCD DQHG YCDKPG ECKCRV G W Q G
300 RYCDECIRYP GCLHGT C Q Q P W Q C N C Q E G W G L F C N Q D L N Y C T H H K P C R N G
350 ATCTNTGQGS YTCSCRPGYT GANCELEVDE CAPSPCKNGA SCTDLED SFS
400 CTCPPGFYCK VCELSAMTCA DGPCFN GGR C SDNPDGGYTC HCPLGFSGFN
450 CEKMDLCS SPCSNGAKCV DLGNSYLCRC QAGFSGRYCE DNVDDCASSP
500 CANGGTCRDS VNDFSC TCPP GYTGNCSAP VSRCEHAPCH NGATCHQRGQ
550 RYMCECAQGY GGPNCQFLLP EPPPGPMVVD LSE RHMESQ GPF PWVAVCA
600 GVVLVLLLLL GCAAVVVCVR LKLQKHQPPP EPCGGETETM NNLANCQREK
650 DVSVSIIGAT QIKNTNKKAD FHGDHGA EKS SFKVRYP TVD YNLVRDLKGD
700 EATVRDTHSK RDTKCQS QSS AGE EKIAPT L RGGEIPDRKR PESVYSTSKD
722 TKYQSVYVLS AEKDECVIAT EV

FIG. 8



CHICK DELTA	MGGRFLTLA LLSALLRCQ	VDGSGVFELK LQEFVNKKGL	LSNRNCCRGG	50
MOUSE DELTA.PEP	MGRRSALALA VVSALLCQ	VSSSGVFELK LQEFVNKKGL	LGNRNCCRGG	48
CONSENSUS	MG.R.L.LA..SALLC...	V..SGVFELD LQEFVNKKGL	L..NRNCCRGG	50
CHICK DELTA	GPGGAGQQQC DCKTFFRVCL	KHYQASVSPE PPCTYGSALT	PVLGANSFSV	100
MOUSE DELTA.PEP	—SGP—PC ACRTFFRVCL	KHYQASVSPE PPCTYGSALT	PVLGVDSFSL	93
CONSENSUS	...G.....C..C.TFFRVCL	KHYQASVSPE PPCTYGSALT	PVLG..SFS.	100
CHICK DELTA	PDGAGGADPA FSNPIRFPG	FTWPGTFSLI IEALHTDSPD	DLTTENPERL	150
MOUSE DELTA.PEP	PDGAG—IDPA FSNPIRFPG	FTWPGTFSLI IEALHTDSPD	DLATENPERL	142
CONSENSUS	PDGAG..DPA FSNPIRFPG	FTWPGTFSLI IEALHTDSPD	DL..TENPERL	150
CHICK DELTA	ISRLATQRHL AVGEEWSQDL	HSSGRDLY SYRFVDEHY	YGECCSVFCR	200
MOUSE DELTA.PEP	ISRLTITQRHL TVGEEWSQDL	HSSGRDLY SYRFVDEHY	YGECCSVFCR	192
CONSENSUS	ISRL..TQRHL..VGEEWSQDL	HSSGRDLY SYRFVDEHY	YGECCSVFCR	200
CHICK DELTA	PRDDRFHGFT CGERGEKVCN	PGWKQYCTE PICLPGCDEQ	HGCDKPGEC	250
MOUSE DELTA.PEP	PRDDAFHGFT CGERGEKMC	PGWKQYCTD PICLPGCDDQ	HGCDKPGEC	242
CONSENSUS	PRDD..FHGFT CG..RGEK..C.	PGWKQYCT..PICLPGCD..Q HG..CDKPGEC		250
CHICK DELTA	KCRVGWQGRY CDECIRYPGC	LHGTCQQPWQ CNCQEGWGGL	FCNQDLNYCT	300
MOUSE DELTA	KCRVGWQGRY CDECIRYPGC	LHFTCQQPWQ CNCQEGWGGL	FCNQDLNYCT	292
CONSENSUS	KCRVGWQGRY CDECIRYPGC	LHGTCQQPWQ CNCQEGWGGL	FCNQDLNYCT	300
CHICK DELTA	HHKPCNGAT CTNTGQGSTY	CSCRPGYTGS SCELEINECD	ANPCKNGGSC	350
MOUSE DELTA.PEP	HHKPCNGAT CTNTGQGSYT	CSCRPGYTGA NCELEVEDECA	PSPCKNGASC	342
CONSENSUS	HHKPC..NGAT CTNTGQGSYT	CSCRPGYTG..CE..E..EC..	..PCKNG..SC	350
CHICK DELTA	TDLENSYSCT CPPGFYGMK	ELSAMTCADG PCFNGGRC	TD NPDGGYSORC	400
MOUSE DELTA.PEP	TDLEDSFSCT CPPGFYGMK	ELSAMTCADG PCFNGGRC	TD NPDGGYTCHC	392
CONSENSUS	TDLE..S..SCT CPPGFYGMK	ELSAMTCADG PCFNGGRC	TD NPDGGY..C..C	400
CHICK DELTA	PLGYSGFNCE KKIDYCSSP	CANGACVDL GNSYICQQA	GFGRHCDN	450
MOUSE DELTA.PEP	PLGYSGFNCE KKMDLCCSSP	CANGAKVDL GNSYICRQA	GFSGRYCEDN	442
CONSENSUS	PLG..SGFNCE KK..D..C..SSP C..NGA..CVDL	GNSY..C..CQA GF..GR..C..DN		450

FIG.9A



CHICK DELTA	VDDCAS	POV	NGGTC	QGVN	D	SCTCP	PGY	NGKNC	STPVS	RCEH	PCHNG	500						
MOUSE DELTA.PEP	VDDCAS	POA	NGGTC	QGVN	D	SCTCP	PGY	TKGNC	SAPVS	RCEH	PCHNG	492						
CONSENSUS	VDDCAS	PO	NGGTC	QGVN	D	SCTCP	PGY	GKNC	PVS	RCEH	PCHNG	500						
CHICK DELTA	ATCH	RSNY	MCECA	GYGG	LNCQ	LLPEP	PGPV	VDFT	EKYTE	QNSQ	550							
MOUSE DELTA	ATCH	RGORY	MCECA	GYGG	PNCQ	LLPEP	PPGP	MVDS	ERHME	SGGP	542							
CONSENSUS	ATCH	R	RY	CECA	GYGG	NCQ	LLPEP	P	GP	VD	E	E	Q	550				
CHICK DELTA	FPW	AVCAGI	ILVL	LLGC	AA	VVCVRLK	VQKR	HHQPEA	CRSE	TETMNN	600							
MOUSE DELTA.PEP	FPW	AVCAGV	VLVL	LLGC	AA	VVCVRLK	LQKH	PPPEP	CGSE	TETMNN	592							
CONSENSUS	FPW	AVCAG	LVL	LLGC	AA	VVCVRLK	LQ	...	PE	C	...	TETMNN	600					
CHICK DELTA	LANCQ	REKDI	SIS	IGATQI	KNTN	KKVDFH	SDN	SDKNGY	KVRYPS	VDYN	649							
MOUSE DELTA	LANCQ	REKDV	SIS	IGATQI	KNTN	KKVDFH	GDHGA	EKSSF	KVRYPT	VDYN	642							
CONSENSUS	LANCQ	REKD	S	S	IGATQI	KNTN	KK	DFH	D	...	K	...	KVRYP	VDYN	650			
CHICK DELTA	LVH	ELKNE	SMKEE	HKCE	AKC	ETYDSEA	EEKSA	VQLKS	SDTSE	RKRPD	698							
MOUSE DELTA.PEP	LVR	DLKGDEA	TVRDT	HSKD	TKQ	QSQSSAG	EEKI	APT	RG	GEIP	DRKRPE	692						
CONSENSUS	LV	...	LK	...	M	...	H	K	...	KQ	...	S	EEK	A	RKRP	700
CHICK DELTA	SVYSTSK	DTK	YQSVY	M	SEE	KDEC	I	ATEV	728									
MOUSE DELTA.PEP	SVYSTSK	DTK	YQSVY	M	SAE	KDEC	I	ATEV	722									
CONSENSUS	SVYSTSK	DTK	YQSVY	M	S	E	KDEC	I	ATEV	730								

FIG.9B



FIG. 10A



370 380 390 400 410 420
*
CTTCCCAAAT GTTCTCATGC ATTCATTGTG GATTTTCTCT ATTTTCCTTT TAGTGGAGAA
L P K C S H A F I V D F L Y F P F S G E>
F P N V L M H S L W I F S I F L L V E K>
S S Q M F S C I H C G F S L F S F * W R>

430 440 450 460 470 480
*
GCATCTGAAA GAAAAAGGCC GGACTCGGGC TGTTCAACTT CAAAAGACAC CAAGTACCAG
A S E R K R P D S G C S T S K D T K Y Q>
H L K E K G R T R A V Q L Q K T P S T S>
S I * K K K A G L G L F N F K R H Q V P>

490 500 510 520
*
TCGGTGTACG TCATATCCGA GGAGAAGGAC GAGTGCGTCA TCGCA
S V Y V I S E E K D E C V I A>
R C T S Y P R R R T S A S S>
V G V R H I R G E G R V R H R>

FIG. 10B

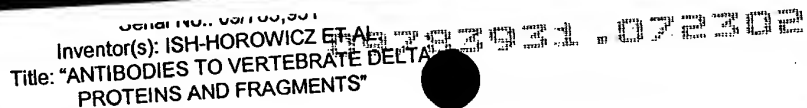


FIG. 11



	10	20	30	40	50	60
*	*	*	*	*	*	*
CATTGGGTAC	GGGCCCCCT	CGAGGTCGAC	GGTATCGATA	AGCTTGATAT	CGAATTCGG	
70	80	90	100	110	120	
*	*	*	*	*	*	*
CTTCACCTGG	CCGGGCACCT	TCTCTCTGAT	TATTGAAGCT	CTCCACACAG	ATTCTCTGA	
130	140	150	160	170	180	
*	*	*	*	*	*	*
TGACCTCGCA	ACAGAAAACC	CAGAAAGACT	CATCAGCCGC	CTGGCCACCC	AGAGGCACCT	
190	200	210	220	230	240	
*	*	*	*	*	*	*
GACGGTGGGC	GAGGAGTGGT	CCCAGGACCT	GCACAGCAGC	GGCCGCACGG	ACCTCAAGTA	
250	260	270	280	290	300	
*	*	*	*	*	*	*
CTCCTACCGC	TTCGTGTGTC	ACCAACACTA	CTACGGAGAG	GGCTGCTCCG	TTTTCTGCCG	
310	320	330	340	350	360	
*	*	*	*	*	*	*
TCCCCGGGAC	GATGCCTTCG	GCCACTTCAC	CTGTGGGGAG	CGTGGGGAGA	AAGTGTGCAA	
370	380	390	400	410	420	
*	*	*	*	*	*	*
CCCTGGCTCG	AAAGGGCCCT	ACTGCACAGA	GCCGATCTGC	CTGCCTGGAT	GTGATGAGCA	
430	440	450	460	470	480	
*	*	*	*	*	*	*
GCATGGATTT	TGTGACAAAC	CAGGGGAATG	CAAGTGCAGA	GTGGGCTGGC	AGGGCCGGTA	
490	500	510	520	530	540	
*	*	*	*	*	*	*
GTGTGACGAG	TGTATCCGCT	ATCCAGGCTG	TCTCCATGGC	ACCTGCCAGC	AGCCCTGGCA	
550	560	570	580	590	600	
*	*	*	*	*	*	*
GTGCAACTGC	CAGGAAGGNT	GGGGGGGCCT	TTTCTGCAAC	CAGGACCTGA	ACTACTGCAC	
610	620	630	640	650	660	
*	*	*	*	*	*	*
ACACCATAAG	CCCTGCAAGA	ATGGAGCCAC	CTGCAACAAA	CACGGGCCAG	GGGGAGCTAC	
670	680	690	700	710	720	
*	*	*	*	*	*	*
ACTTGGTCTT	TGGCCGGNCT	GGGGTACANA	GGGTGCCACC	TGCGAAGCTT	GGGGATTGGA	
730	740	750	760	770	780	
*	*	*	*	*	*	*
CGAGTTGTTG	ACCCAGCCCC	TTGGTAAGAA	CGGAGGGAGC	TTGACGGATC	TTCGGAGAAC	
790	800	810	820	830	840	
*	*	*	*	*	*	*
AGCTACTCCT	GTACCTGCCC	ACCCGGCTTC	TACGGCAAAA	TCTGTGAATT	GAGTGCCATG	
850	860	870	880	890	900	
*	*	*	*	*	*	*
ACCTGTGCGG	ACGGCCCTTG	CTTTAACGGG	GGTCGGTGCT	CAGACAGCCC	CGATGGAGGG	

FIG. 12A1



910	920	930	940	950	960
* *	* *	* *	* *	* *	* *
TACAGCTGCC	GCTGCCCCGT	GGGCTACTCC	GGCTTCAACT	GTGAGAAGAA	AATTGACTAC
970	980	990	1000	1010	1020
* *	* *	* *	* *	* *	* *
TGCAGCTCTT	CACCCTGTTC	TAATGGTGCC	AAGTGTGTGG	ACCTCGGTGA	TGCCTACCTG
1030	1040	1050	1060	1070	1080
* *	* *	* *	* *	* *	* *
TGCCGCTGCC	AGGCCGGCTT	CTCGGGGAGG	CACTGTGACG	ACAACGTGGA	CGACTGCGCC
1090	1100	1110	1120	1130	1140
* *	* *	* *	* *	* *	* *
TCCTCCCCGT	GCGCCAACGG	ACCTCGGTGA	CGGGATGGCG	TGAACGACTT	CTCCTGCACC
1150	1160	1170	1180	1190	1200
* *	* *	* *	* *	* *	* *
TGCCCCCCTG	GCTACACGGG	CAGGAACGTC	AGTGCCCCCG	CCAGCACCTG	CGAGCACGCA
1210	1220	1230	1240	1250	1260
* *	* *	* *	* *	* *	* *
CCCTGCCACA	ATGGGGCCAC	CTGCCACGAG	AGGGGCCACC	GCTATNTGTG	CGAGCACGCA
1270	1280	1290	1300	1310	1320
* *	* *	* *	* *	* *	* *
CGAAGCTACG	GGGGTCCCAA	CTCCCAN TTC	CTGCTCCCCC	AAACTGCCCC	CCGGGCCCCA
1330	1340	1350	1360	1370	1380
* *	* *	* *	* *	* *	* *
CGGTGGTGGA	AACTCCCCTA	AAAAACCTA	AAAGGGCCGG	GGGGGGCCCA	TCCCCTTGTT
1390	1400	1410	1420	1430	1440
* *	* *	* *	* *	* *	* *
GGACGTGTGC	GCCGGGGTCA	TCCTTGTCTT	CATGCTGCTG	CTGGGCTGTG	CCGCTGTGGT
1450	1460	1470	1480	1490	1500
* *	* *	* *	* *	* *	* *
GGTCTGCGTC	CGGCTGAGGC	TGCAGAAGCA	CCGGCCCCCA	GCCGACCCCT	GNCGGGGGGA
1510	1520	1530	1540	1550	1560
* *	* *	* *	* *	* *	* *
GACGGAGACC	ATGAACAACC	TGGNCAACTG	CCAGCGTGAG	AAGGACATCT	CAGTCAGCAT
1570	1580	1590	1600	1610	1620
* *	* *	* *	* *	* *	* *
CATCGGGGNC	ACGCAGATCA	AGAACACCAA	CAAGAAGGCG	GACTTCCACG	GGGACCACAG
1630	1640	1650	1660	1670	1680
* *	* *	* *	* *	* *	* *
NGCCGACAAG	AATGGCTTCA	AGGCCCGCTA	CCCAGNGGTG	GACTATAACC	TCGTGCAGGA
1690	1700	1710	1720	1730	1740
* *	* *	* *	* *	* *	* *
CCTCAAGGGT	GACGACACCG	CCGTCAGCCA	CGCGCACAGC	AAGCGTGACA	CCAAGTGNCA
1750	1760	1770	1780	1790	1800
* *	* *	* *	* *	* *	* *
GCCCCAGGGC	TCCTCAGGGG	AGGAGAAGGG	GACCCCCGAC	CCCACTCAG	GGGGTGGAGG

FIG.12A2

Serial NO.: 09/703,931

Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

1573931.072302



1810	1820	1830	1840	1850	1860
* *	* *	* *	* *	* *	* *
AAGCATCTTG	AAAGAAAAAG	GCCGGACTTC	GGGCTTGTTT	AACTTTCAAA	AGACAANCAA
1870	1880	1890	1900	1910	1920
* *	* *	* *	* *	* *	* *
NGTACAAGTC	GGTGTNCGTC	ATTTCCGNAG	GAGGAAGGNT	GACTGCGTCA	TAGGAANTTG
1930	1940	1950	1960	1970	1980
* *	* *	* *	* *	* *	* *
AGGTNGTAAA	NTGGNAGTTG	ANNTTGAAA	GNNNTCCCCG	GATTCCGNTT	TCAAAGTTTT

T

FIG. 12A3



10 20 30 40 50 60
* * * * * o.o.no.
CATTGGGTAC GGGCCCCCT CGAGGTCGAC GGTATCGATA AGCTTGATAT CGAATTCGG
H W V R A P L E V D G I D K L D I E F R> 20
I G Y G P P S R S T V S I S L I S N S G> 20
L G T G P P R G R R Y R * A * Y R I P> 19

70 80 90 100 110 120
* * * * *
CTTCACCTGG CCGGGCACCT TCTCTCTCAT TATTGAAGCT CTCCACACAG ATTCTCTGA
L H L A G H L L S D Y * S S P H R F S > 40
F T W P G T F S L I I E A L H T D S P D> 40
A S P G R A P S L * L L K L S T Q I L L> 39

130 140 150 160 170 180
* * * * *
TGACCTCGCA ACAGAAAACC CAGAAAGACT CATCAGCCGC CTGGCCACCC AGAGGCACCT
* P R N R K P R K T H Q P P G H P E A P> 60
D L A T E N P E R L I S R L A T Q R H L> 60
M T S Q Q K T Q K D S S A A W P P R G T> 59

190 200 210 220 230 240
* * * * *
GACCGTGGGC GAGGACTGGT CCCAGGACCT GCACAGCAGC GGCCGCACCG ACCTCAAGTA
D G G R G V V P G P A Q Q R P H G P Q V> 80
T V G E E W S Q D L H S S G R T D L K Y> 80
* R W A R S G P R T C T A A A A R T S S> 79

250 260 270 280 290 300
* * * * *
CTCCTACCGC TTCGTGTGTG ACGAACAATA CTACGAGAG GGCTGCTCCG TTTTCTGCCG
L L P L R V * R T L L R R G L L R F L P> 100
S Y R F V C D E H Y Y G E G C S V F C R> 100
T P T A S C V T N T T T E R A A P F S A> 99

310 320 330 340 350 360
* * * * *
TCCCGGGAC GATGCCTTCG GCCACTTCAC CTGTGGGGAG CGTGGGGAGA AAGTGTGCAA
S P G R C L R P L H L W G A W G E S V Q> 120
P R D D A F G H F T C G E R G E K V C N> 120
V P G T M P S A T S P V C S V G R K C A> 119

FIG.12B1



370 380 390 400 410 420
* * * * *
CCCTGGCTGG AAAGGGCCCT ACTGCACAGA GCCGATCTGC CTGCCTGGAT GTGATGAGCA 140
P W L E R A L L H R A D L P A W M * * A>
P G W K G P Y C T E P I C L P G C D E Q> 140
T L A G K G P T A Q S R S A C L D V M S> 139

430 440 450 460 470 480
* * * * *
GCATGGATT TGTGACAAAC CAGCCCAATG CAAGTGCAGA GTGGGCTGGC AGGGCCCGTA 160
A W I L * Q T R G M Q V Q S G L A G P V>
H G F C D K P G E C K C R V G W Q G R Y> 160
S M D F V T N Q G N A S A E W A G R A G> 159

490 500 510 520 530 540
* * * * *
CTGTGACGAG TGTATCCGCT ATCCAGGCTG TCTCCATGGC ACCTGCCAGC AGCCCTGGCA 180
L * R V Y P L S R L S P W H L P A A L A>
C D E C I R Y P G C L H G T C Q Q P W Q> 180
T V T S V S A I Q A V S M A P A S S P G> 179

550 560 570 580 590 600
* * * * *
GTGCAACTGC CAGGAAGGNT GGGGGGGCCT TTTCTGCAAC CAGGACCTGA ACTACTGCAC 200
V Q L P G R X G G P F L Q P G P E L L H>
C N C Q E G W G G L F C N Q D L N Y C T> 200
S A T A R K X G G A F S A T R T * T T A> 199

610 620 630 640 650 660
* * * * *
ACACCATAAG CCCTGCAAGA ATCGAGCCAC CTGCAACAAA CACGGGCCAG GGGGAGCTAC 220
T P * A L Q E W S H L Q Q T R A R G S Y>
H H K P C K N G A T C N K H G P G G A T> 220
H T I S P A R M E P P A T N T G Q G E L> 219

670 680 690 700 710 720
* * * * *
ACTTGGTCTT TGGCCCGNCT GGGGTACANA GGGTGCCACC TGCGAAGCTT GGGGATTGGA 240
T W S L A G L G Y X G C H L R S L G I G>
L G L W P X W G T X G A T C E A W G L D> 240
H L V F G R X C V X R V P P A K L G D W> 239

FIG.12B2



730 740 750 760 770 780
* * * * *
CGAGTTGTTG ACCCCAGCCC TTGTAAGAA CCGAGGGAGC TTGACGGATC TTCGGAGAAC
R V V D P S P W * E R R E L D G S S E N> 260
E L L T P A L G K N G G S L T D L R R T> 260
T S C * P Q P L V R T E Q A * R I F G E> 259

790 800 810 820 830 840
* * * * *
AGCTACTCCT GTACCTGCCC ACCCGGCTTC TACGGCAAAA TCTGTGAATT GAGTGCCATG
S Y S C T C P P G F Y G K I C E L S A M> 280
A T P V P A H P A S T A K S V N * V P > 280
Q L L L Y L P T R L L R Q N L * I E C H> 279

850 860 870 880 890 900
* * * * *
ACCTGTGCGG ACGGCCCTTG CTTTAACGGG GGTGCGTGCT CAGACAGCCC CGATGGAGGG
T C A D G P C F N G G R C S D S P D G G> 300
P V R T A L A L T G V G A Q T A P M E G> 300
D L C G R P L L * R G S V L R Q P R W R> 299

910 920 930 940 950 960
* * * * *
TACAGCTGCC GCTGCCCCGT GGGCTACTCC GGCTTCAACT GTGAGAAGAA AATTGACTAC
Y S C R C P V G Y S G F N C E K K I D Y> 320
T A A A A P W A T P A S T V R R K L T T> 320
V Q L P L P R G L L R L Q L * E E N * L> 319

970 980 990 1000 1010 1020
* * * * *
TGCAGCTCTT CACCCGTGTC TAATGGTGCC AAGTGTGTGG ACCTCGGTGA TGCCTACCTG
C S S S P C S N G A K C V D L G D A Y L> 340
A A L H P V L M V P S V W T S V M P T C> 340
L Q L F T L F * W C Q V C G P R * C L P> 339

1030 1040 1050 1060 1070 1080
* * * * *
TGCCGCTGCC AGGCCGGCTT CTCGGGGAGG CACTGTGACG ACAACGTGGA CGACTGCGCC
C R C Q A G F S G R H C D D N V D D C A> 360
A A A R P A S R G G T V T T T W T T A P> 360
V P L P G R L L G E A L * R Q R G R L R> 359

FIG.12B3



1090 1100 1110 1120 1130 1140
* * * * *
TCCTCCCCGT GCGCCAACGG GGGCACCTGC CGGGATGGCG TGAACGACTT CTCCTGCACC
S S P C A N G G T C R D G V N D F S C T> 380
P P R A P T G A P A G M A * T T S P A P> 380
L L P V R Q R G H L P G W R E R L L L H> 379

1150 1160 1170 1180 1190 1200
* * * * *
TGCCCGCCTG GCTACACGGG CAGGAAGTGC AGTGCCCCCG CCAGCAGGTG CGAGCACGCA
C P P G Y T G R N C S A P A S R C E H A> 400
A R L A T R A G T A V P P P A G A S T H> 400
L P A W L H G Q E L Q C P R Q Q V R A R> 399

1210 1220 1230 1240 1250 1260
* * * * *
CCCTGCCACA ATGGGGCCAC CTGCCACGAG AGGGGCCACC GCTATNTGTG CGAGTGTGCC
P C H N G A T C H E R G H R Y X C E C A> 420
P A T M G P P A T R G A T A I C A S V P> 420
T L P Q W G H L P R E G P P L F V R V C> 419

1270 1280 1290 1300 1310 1320
* * * * *
CGAAGCTACG GGGGTCCCAA CTGCCANTTC CTGCTCCCCG AAAGTGGCCC CCGGGCCCCA
R S Y G G P N C X F L L P E T A P P A P> 440
E A T G V P T A X S C S P K L P P R P H> 440
P K L R G S Q L P X P A P R N C P P G P> 439

1330 1340 1350 1360 1370 1380
* * * * *
CGGTGGTGG AACTCCCCTA AAAAAACCTA AAAGGGCCGG GGGGGGCCCA TCCCCTTGGT
R W W K L P * K N L K G P G G A H P L G> 460
G G G N S P K K T * K G R G G P I P L V> 460
T V V E T P L K K P K R A G G G P S P W> 459

1390 1400 1410 1420 1430 1440
* * * * *
GGACGTGTGC GCGGGGTCA TCCTGTCTCT CATGCTGCTG CTGGGCTGTC CCGCTGTGGT
G R V R R G H P C P H A A A G L C R C G> 480
D V C A G V I L V L M L L L G C A A V V> 480
W T C A P G S S L S S C C C W A V P L W> 479

FIG.12B4



Serial NO. 09765,931
Inventor(s): ISH-HOROWICZ ET AL. 283931.072302
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

1450 1460 1470 1480 1490 1500
* * * * *
GGTCTGCGTC CCGCTGAGGC TCCAGAAGCA CCGGCCCCCA GCCGACCCCT GNCGGGGCGA
G L R P A E A A E A P A P S R P L X G C> 500
V C V R L R L Q K H R P P A D P X R G E> 500
W S A S G * G C R S T G P Q P T P X G G> 499

1510 1520 1530 1540 1550 1560
* * * * *
GACGGAGACC ATGAACAACC TGGNCAACTG CCAGCGTCAG AAGGACATCT CAGTCAGCAT
D C D H E Q P G Q L P A * E G H L S Q H> 520
T E T M N N L X N C Q R E K D I S V S I> 520
R R R P * T T W X T A S V R R T S Q S A> 519

1570 1580 1590 1600 1610 1620
* * * * *
CATCGGGGNC ACGCAGATCA AGAACACCAA CAAGAAGGCG GACTTCCACG GGGACCACAG
H R G H A D Q E H Q Q E G G L P R G P Q> 540
I G X T Q I K N T N K K A D F H G D H X> 540
S S G X R R S R T P T R R R T S T G T I> 539

1630 1640 1650 1660 1670 1680
* * * * *
NGCCGACAAG AATGGCTTCA AGGCCCGCTA CCCAGNGGTG GACTATAACC TCGTCAGGA
X R Q E W L Q G P L P X G G L * P R A G> 560
A D K N G F K A R Y P X V D Y N L V Q D> 560
X P T R M A S R P A T Q X W T I T S C R> 559

1690 1700 1710 1720 1730 1740
* * * * *
CCTCAAGGCT GACGACACCG CCGTCAGGGA CGCCACACGC AAGCGTGACA CCAAGTCNCA
P Q G * R H R R Q G R A Q Q A * H Q V X> 580
L K G D D T A V R D A H S K R D T K X Q> 580
T S R V T T P P S G T R T A S V T P S X> 579

1750 1760 1770 1780 1790 1800
* * * * *
GCCCCAGGGC TCCTCAGGGG AGGAGAAGGG GACCCCGGAC CCACACTCAG GCGGTGGAGG
A P G L L R G G E G D P R P T L R G W R> 600
P Q G S S G E E K G T P D P H S G G G G> 600
S P R A P Q G R R R G P P T H T Q G V E> 599

FIG.12B5



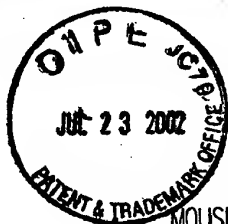
1810	1820	1830	1840	1850	1860	
* * * * *						
AAGCATCTTG AAAGAAAAG GCCGGACTTC GGCCTTGTC AACTTTCAA AGACAANCA						
K H L E	R K R P	D F	G L V Q L	S K D	X Q>	620
S I L	K E K G R T	S	G L F N F	Q K T	X X>	620
E A S *	K K K A G L	R A C	S T	F K R	Q X>	619
1870	1880	1890	1900	1910	1920	
* * * * *						
NGTACAAGTC GGTGTNCGTC ATTTCCGNAG GAGGAAGGNT GACTGCCGTC TAGGAANTTG						
X T S R C X S	F P X E E G	*	L R H	R X L>		640
V Q V G V R	H F R R	R K X	D C V I	G X X>		640
X Y K S	V X V I S X	G G R X	T A S	* E X>		639
1930	1940	1950	1960	1970	1980	
* * * * *						
ACGTNGTAAA NTGCNAGTTG ANNTTGGAAA GNNNTCCCCC GATTCCCNNT TCAAAGTTT						
R X *	X G S *	X W K	X X P	G F R F	Q S F>	660
G X K	X X V	X X G K	X S P	D S X	F K V F>	660
E V	V X W X L	X L E	X X P R	I P X	S K F>	659

FIG.12B6



MOUSE DELTA DNA	GTCCAGCGGT ACCATGGGCC GTCGGAGCGC GCTAGCCCTT GCCGTGGTCT	50
HUMAN DELTA	-----	
CONSENSUS	GTCCAGCGGT ACCATGGGCC GTCGGAGCGC GCTAGCCCTT GCCGTGGTCT	50
MOUSE DELTA DNA	CTGCCCTGCT GTGCCAGGTC TGGAGCTCCG GCGTATTGA GCTGAAGCTG	100
HUMAN DELTA	-----	
CONSENSUS	CTGCCCTGCT GTGCCAGGTC TGGAGCTCCG GCGTATTGA GCTGAAGCTG	100
MOUSE DELTA DNA	CAGGAGTTCG TCAACAAGAA GGGGCTGCTG GGAACCGCA ACTGCTGCCG	150
HUMAN DELTA	-----	
CONSENSUS	CAGGAGTTCG TCAACAAGAA GGGGCTGCTG GGAACCGCA ACTGCTGCCG	150
MOUSE DELTA DNA	CGGGGGCTCT GGCCCGCCTT GCGCCTGCAG GACCTTCTTT CCGGTATGCC	200
HUMAN DELTA	-----	
CONSENSUS	CGGGGGCTCT GGCCCGCCTT GCGCCTGCAG GACCTTCTTT CCGGTATGCC	200
MOUSE DELTA DNA	TCAAGCACTA CCAGGCCAGC GTGTCACCGG AGCCACCCTG CACCTACGGC	250
HUMAN DELTA	-----	
CONSENSUS	TCAAGCACTA CCAGGCCAGC GTGTCACCGG AGCCACCCTG CACCTACGGC	250
MOUSE DELTA DNA	AGTGCTGTCA CGCCAGTGCT GGGTGTGAC TCCTTCAGCC TGCCTGATCG	300
HUMAN DELTA	-----	5
CONSENSUS	AGTGCTGTCA CGCCAGTGCT GGGTGTGAC TCCTTCAGCC TGCCTSATKG	300
MOUSE DELTA DNA	CCGAGGCATC GACCCG---G CTTTACGAA CCCC---TCC GATTC---CCC	343
HUMAN DELTA	GGTACGGGCC CCCCTGAGG TCGACGGTAT CGATAAGCTT GATATCGAAT	55
CONSENSUS	SGYASGSRYC SMCCTGAGG YCKWCRGYAW CSMYAAGYYY GATATCSMMY	350
MOUSE DELTA DNA	TTCCGCTTCA CCTGGCCAGG TACCTTCTCT CTGATCATTG AAGCCCTCCA	393
HUMAN DELTA	TCCGCTTCA CCTGGCCGGG CACCTTCTCT CTGATTATTG AAGCTCTCCA	105
CONSENSUS	TYCCGCTTCA CCTGGCCAGG YACCTTCTCT CTGATYATTG AAGCTCTCCA	400
MOUSE DELTA DNA	TACAGACTCT CCGATGACC TCGCAACAGA AAACCCAGAA AGACTCATCA	443
HUMAN DELTA	CACAGATTCT CCGATGACC TCGCAACAGA AAACCCAGAA AGACTCATCA	155
CONSENSUS	YACAGATTCT CCGATGACC TCGCAACAGA AAACCCAGAA AGACTCATCA	450

FIG.13A



MOUSE DELTA DNA	GCCGCCTGAC CACACAGAG CACCTCACTG TGGGAGAAGA ATGGTCTCAG	493
HUMAN DELTA	GCCGCCTGGC CACCCAGAGG CACCTGACGG TGGGCGAGGA GTGGTCCCAG	205
CONSENSUS	GCCGCCTGRC CACACAGAGG CACCTSACKG TGGGAGAGA RTGGTCTCAG	500
MOUSE DELTA DNA	GACCTTCACA GTAGCGGCCG CACAGACCTC CGTACTCTT ACCGCTTTGT	543
HUMAN DELTA	GACCTGCACA GCAGCGGCCG CACGGACCTC AAGTACTCCT ACCGCTTCGT	255
CONSENSUS	GACCTTCACA GTAGCGGCCG CACAGACCTC MGTACTCTT ACCGCTTTGT	550
MOUSE DELTA DNA	GTGTGACGAG CACTACTACG GAGAAGGTTG CTCGTCTTC TGCCGACCTC	593
HUMAN DELTA	GTGTGACGAA CACTACTACG GAGAGGGCTG CTCGTCTTC TGCCGTCCCG	305
CONSENSUS	GTGTGACGAR CACTACTACG GAGAGGGTG CTCGTCTTC TGCCGACCTC	600
MOUSE DELTA DNA	GGGATGAGGC CTTTGGCCAC TTCACCTGG GGGACAGAGG GGAGAAGATG	643
HUMAN DELTA	GGGACGATGC CTTTGGCCAC TTCACCTGTG GGGACCGTGG GGAGAAAGTG	355
CONSENSUS	GGGATGAGGC CTTTGGCCAC TTCACCTGYG GGGASMGWG GGAGAARRTG	650
MOUSE DELTA DNA	TGGACCCCTG GCTGGAAAGG CAGTACTGCG GTGACCCAA TCTGTCTGCC	693
HUMAN DELTA	TGCAACCCCTG GCTGGAAAGG GCCCTACTGC ACAGAGCCGA TCTGCTGCC	405
CONSENSUS	TGCAACCCCTG GCTGGAAAGG SCMTACTGC ACAGASCCRA TCTGTCTGCC	700
MOUSE DELTA DNA	AGCGTGTGAT GACCAACATG GATACTGTGA CAAACCAGGG GATGCAAGT	743
HUMAN DELTA	TGGATGTGAT GAGCAGCATG GATTTTGTGA CAAACCAGGG GAATGCAAGT	455
CONSENSUS	WGRTGTGAT GASCACATG GATWYTGTA CAAACCAGGG GATGCAAGT	750
MOUSE DELTA DNA	GCAGAGTTGG CTGGCAGGGC CGTACTGCG ATGAGTGCAT CCGATACCA	793
HUMAN DELTA	GCAGAGTGGG CTGGCAGGGC CGITACTGTG ACCAGTGTAT CCGCTATCCA	505
CONSENSUS	GCAGAGTKGG CTGGCAGGGC CGTACTGYS ATGAGTGYAT CCGMTATCCA	800
MOUSE DELTA DNA	GGTGTCTCC ATGGCACCTG CCAGCAACC TGGCAGTGA ACTGCCAGGA	843
HUMAN DELTA	GGCTGTCTCC ATGGCACCTG CCAGCAGCCC TGGCAGTGA ACTGCCAGGA	555
CONSENSUS	GGTGTCTCC ATGGCACCTG CCAGCAACC TGGCAGTGA ACTGCCAGGA	850
MOUSE DELTA DNA	AGCGTGGGG GGCCTTTTCT GCAACCAAGA CCTGAACCTAC TGTACTCACC	893
HUMAN DELTA	AGCNTGGGG GGCCTTTTCT GCAACCAGGA CCTGAACCTAC TGCACACACC	605
CONSENSUS	AGCNTGGGG GGCCTTTTCT GCAACCAGA CCTGAACCTAC TGTACTCACC	900

FIG.13B



MOUSE DELTA DNA	ATAAGCCGTG CAGGAATGGA GCCACCTGCA	CCAACACGG GCCAGGGG	941
HUMAN DELTA	ATAAGCCGTG CAGGAATGGA GCCACCTGCA	CAAACACGG GCCAGGGGGA	655
CONSENSUS	ATAAGCCGTG CAGGAATGGA GCCACCTGCA	CAAAACACGG GCCAGGGGGA	950
MOUSE DELTA DNA	GCTACACATG TTCCT GCC GACCTGGGT ATACA GGTG CCAACTGTG		986
HUMAN DELTA	GCTACACTTG GTCTTTGGCC GGNCITGGGT ACAAAGGGTG CCACCTGGGA		705
CONSENSUS	GCTACACATG KTCYTTGGCC GGNCYKGGGT AYAANAGGGTG CCANCTGYGA		1000
MOUSE DELTA DNA	AGCT GGAA GTAGATGAG TG TGCTCCT AGCCCTTC AAGAACGGAG		1031
HUMAN DELTA	AGCTTGGGGA TTGGACGAGT TGTITGACCC AGCCCTTGGT AAGAACGGAG		755
CONSENSUS	AGCTTGGGGA KTRGAYGAGT TGTITGMYCOY AGCCCTTGGY AAGAACGGAG		1050
MOUSE DELTA DNA	CGAGCTGCAC GGACCTT G AGGACAGCTT CTCTTGACCC TGCCCTCCCG		1079
HUMAN DELTA	CGAGCTTGAC GGATCTTCGG AGAACAGCTA CTCCTGTACC TGCCCAACCG		805
CONSENSUS	SGAGCTKSAC GGAYCTTCGG AGRACAGCTW CTCYTGAYACC TGCCCWCCCG		1100
MOUSE DELTA DNA	GCTTCTATGG CAAGGTCTGT GAGGTGAGCG CCATGACCTG TGCAGATGGC		1129
HUMAN DELTA	GCTTCAACGG CAAATCTGT GAATGAGTG CCATGACCTG TGCGGACGGC		855
CONSENSUS	GCTTCTAYGG CAARRTCTGT GARYTGAGYG CCATGACCTG TGCRGAYGGC		1150
MOUSE DELTA DNA	CCTTGCTTCA ATGGAGGACG ATGTTTCAGAT AACCTTGACG GAGGCTACAC		1179
HUMAN DELTA	CCTTGCTTTA ACGGGGTCG GTGCTCAGAC AGCCCGGATG GAGGGTACAG		905
CONSENSUS	CCTTGCTTYA AYGGRGWCG RTGYTCAGAY ARCCOYGAYG GAGGSTACAS		1200
MOUSE DELTA DNA	CTGCCATTCG CCCTTGGGCT TCTCTGGCTT CAACTGTGAG AAGAAGATCG		1229
HUMAN DELTA	CTGCCGCTGC CCCGTGGGCT ACTCCGGCTT CAACTGTGAG AAGAAAATTG		955
CONSENSUS	CTGCCRYTGC CCCTTGGGCT MCTCYGGCTT CAACTGTGAG AAGAARATKG		1250
MOUSE DELTA DNA	ATCTCTGGG CTCTTCCCT TGTCTAACG GTGCCAAGTG TGTGGACCTC		1279
HUMAN DELTA	ACTACTGCAG CTCTTACCC TGTCTAATG GTGCCAAGTG TGTGGACCTC		1005
CONSENSUS	AYYWTGCRG CTCTTCCCY TGTCTAAYG GTGCCAAGTG TGTGGACCTC		1300
MOUSE DELTA DNA	GGCAACTCTT ACCTGTGCCG CTGCCAGGCT GGCTTCTCGG GGAGGTACTG		1329
HUMAN DELTA	GGTGATGCC T ACCTGTGCCG CTGCCAGGCC GGCTTCTCGG GGAGGCACTG		1055
CONSENSUS	GGYRAYKCYT ACCTGTGCCG CTGCCAGGCY GGCTTCTGSG GGAGGYACTG		1350
MOUSE DELTA DNA	CGAGGACAAT GTGGATGACT GTGCCTCCTC CCCGTGTGCA AATGGGGGCA		1379
HUMAN DELTA	TGAGGACAAC GTGGAGGACT GCGCTCCTC CCCGTGCCCC AACGGGGGCA		1105
CONSENSUS	YGAGGACAAY GTGGAYGACY GYGCCTCCTC CCCGTGYGCM AAYGGGGGCA		1400

FIG.13C



MOUSE DELTA DNA	CCTGCCGGA	CAGTGTGAAC	GACTTCTCCT	GTACCTGCC	ACCTGGCTAC	1429
HUMAN DELTA	CCTGCCGGA	TGGCGTGAAC	GACTTCTCCT	GCACCTGCC	GCCTGGCTAC	1155
CONSENSUS	CCTGCCGGA	YRGTGTGAAC	GACTTGTCT	GYACCTGCC	RCCYGGCTAC	1450
MOUSE DELTA DNA	ACGGGCAAGA	ACTGCAGGC	CCCTGTGAGC	AGGTGTGAGC	ATGCACCCTG	1479
HUMAN DELTA	ACGGGCAGGA	ACTGCAGTGC	CCCCTGCAGC	AGGTGCGAGC	ACGCACCCTG	1205
CONSENSUS	ACGGGCARGA	ACTGCAGYGC	CCCYGTGAGC	AGGTGYGAGC	AYGCACCCTG	1500
MOUSE DELTA DNA	CCATAATGGG	GCCACCTGCC	ACCAGAGGGG	CCAGCGCTAC	ATGTGTGAGT	1529
HUMAN DELTA	CCACAATGGG	GCCACCTGCC	ACGAGAGGGG	CCACCGCTAT	TTGTGCGAGT	1255
CONSENSUS	CCAYAAATGGG	GCCACCTGCC	ACSAGAGGGG	CCACCGCTAY	WTGTGYGAGT	1550
MOUSE DELTA DNA	GCGCCGAGG	CTATGGCGG	CCCAACTGCC	AGTTTCTGCT	CCCTGAGCC	1578
HUMAN DELTA	GTGCCGGAAG	CTACGGGGT	CCCAACTGCC	ANTTCTGCT	CCCGAAACT	1305
CONSENSUS	GYGCCRRRG	CTAYGSGGY	CCCAACTGCC	ANTTCTGCT	CCCYGAACY	1600
MOUSE DELTA DNA	-ACCACCAGG	GCCCATGGTG	GTGG-ADCTC	AGTGAGAGGC	ATAT-GGAGA	1625
HUMAN DELTA	CCCCCCCCG	CCCCACGGTG	GTGGAATCT	CCCTAAAAA	ACCTAAAAGG	1355
CONSENSUS	GMCCMCCMG	SCCAYGGTG	GTGGAAMCT	MSYKARARM	AYMTARRAGR	1650
MOUSE DELTA DNA	GCCAGGGCG	GCCCTTCCCC	TGGGTGGCG	TGTGTGCCG	GGTGGTCTT	1675
HUMAN DELTA	GCCGGGGGG	GCCCATCCCC	TTGGTGGACG	TGTGGCCG	GGTCATCCTT	1405
CONSENSUS	GCCRGGSGG	GCCCTTCCCC	TGGTGGMCG	TGTGYGCCG	GGTSRTSCTT	1700
MOUSE DELTA DNA	GTCCTCTGC	TGCTGCTGGG	CTGTGCTGCT	GTGGTGGTCT	GCGTCCGGCT	1725
HUMAN DELTA	GTCCTCATGC	TGCTGCTGGG	CTGTGCCGCT	GTGGTGGTCT	GCGTCCGGCT	1455
CONSENSUS	GTCCTCATGC	TGCTGCTGGG	CTGTGCTGCT	GTGGTGGTCT	GCGTCCGGCT	1750
MOUSE DELTA DNA	GAAGCTACAG	AAACACAGC	CTCCATCTGA	ACCCTGTGGG	GGAGAGACAG	1775
HUMAN DELTA	GAGGCTGCAG	AAGCACCGC	CCCCATCGA	CCCCTGNCGG	GGGAGACGG	1505
CONSENSUS	GARGCTRCAG	AARCACORGC	CTCCASCTGA	MCCCTGNSGG	GGRGAGACRG	1800
MOUSE DELTA DNA	AAACCATGAA	CAACCTAGCC	AATGCCAGC	GCGAGAAGGA	CGTTTCTGTT	1825
HUMAN DELTA	AGACCATGAA	CAACCTGANC	AACTGCCAGC	GTGAGAAGGA	CATCTCAGTC	1555
CONSENSUS	AAACCATGAA	CAACCTGANC	AAYTGCCAGC	GYGAGAAGGA	CRITTCAGTY	1850

FIG.13D



MOUSE DELTA DNA	AGCATCATTTG GGGCTACCA GATCAAGAAC ACCAACAAGA AGGCGGACTT	1875
HUMAN DELTA	AGCATCATCG GGGNACGCA GATCAAGAAC ACCAACAAGA AGGCGGACTT	1605
CONSENSUS	AGCATCATY GGGNYACCA GATCAAGAAC ACCAACAAGA AGGCGGACTT	1900
MOUSE DELTA DNA	TCACGGGGAC CATGGAGCCA AGAAGAGCAG CTTTAAGGTC CGATACCCCA	1925
HUMAN DELTA	CCACGGGGAC CACAGNGCCG ACAAGAATGG CTTCAAGGCC CGCTACCCAG	1655
CONSENSUS	YCACGGGGAC CAYRGNGCCR ASAAGARYRG CTTTAAGGYC CGMTACCOMR	1950
MOUSE DELTA DNA	CTGTGGACTA TAACCTCGTT CGAGACCTCA AGGGAGATGA AGCCACGGTC	1975
HUMAN DELTA	NGGTGGACTA TAACCTCGTG CAGGACCTCA AGGGTGACGA CACCGCGGTC	1705
CONSENSUS	NKGTGGACTA TAACCTCGTK CRRGACCTCA AGGGAGATGA MRCCRCGGTC	2000
MOUSE DELTA DNA	AGGGATACAC ACAGCAAACG TGACACCAAG TGCCAGTCAC AGAGCTCTGC	2025
HUMAN DELTA	AGGGACGCGC ACAGCAAGCG TGACACCAAG TGCAGCCCC AGGCTCTCTC	1755
CONSENSUS	AGGGAYRCRC ACAGCAAFCG TGACACCAAG TGCAGYCMC AGRCTCTYKC	2050
MOUSE DELTA DNA	AGGACAAGAG AA—GATCG CC—CCAACA CTTA—GGGGT GG—GG—AGAT	2067
HUMAN DELTA	AGGGGAGGAG AAGGGGACCC CCGACCCACA CTCAGGGGGT GGAGGAAGCA	1805
CONSENSUS	AGGRGARGAG AAGGGGAYCS CCGACCMACA CTYAGGGGGT GGAGGAAGMW	2100
MOUSE DELTA DNA	TCCTGACAGA AAAAGGCCAG AGTCT—GTC TACTGTAC—T TCAAAGGAC—	2113
HUMAN DELTA	TCTTGAAAGA AAAAGGCCGG ACTTCGGGCT TGTTCAACTT TCAAAAGACA	1855
CONSENSUS	TCYTGAAGAGA AAAAGGCCRG ASTYYGGGY TRYTOWACTT TCAAARGACA	2150
MOUSE DELTA DNA	—ACCAAGTAC CAGTCGGTGT ATGTTGTGTC TGCAGAA—A AGGATGAGTG	2160
HUMAN DELTA	ANCAANGTAC AAGTCGGTGT NGTCATTTTC CGNAGGAGGA AGGNTGACTG	1905
CONSENSUS	ANCMANGTAC MAGTCGGTGT NYGTYMTKTC YGNAGRAGGA AGGNTGASTG	2200
MOUSE DELTA DNA	TGTTATA—GC GACTGAGGT—GTAAGATGGA AGCGATGTGG CAAAATTCCC	2208
HUMAN DELTA	CGTCATAGGA ANTTGAGGTN GTAAANTGON AG—T—TG—ANNTT—	1945
CONSENSUS	YGTYATAGGM RNYTGAGCTN GTAARNITGON AGCGATGTGG CAANNTTCCC	2250
MOUSE DELTA DNA	ATTCTCTCA AATAAAATTC CAAGGATATA GCCCGATGA ATGCTGCTGA	2258
HUMAN DELTA	—GGA AAGNN—TC CCCGAT—TCCGNT—TTT—	1972
CONSENSUS	ATTCTCKSA AAKNNNATTC CMGGATATA GCYCCGNTGA ATGCTKCTGA	2300

FIG.13E



MOUSE DELTA DNA	GAGAGGAAGG	GAGAGG	AAAC	CCAGGGACTG	CTGCTGAGAA	CCAGGTTTCAG	2308
HUMAN DELTA	-----	-----	AAA	-----	G TTTT	-----	1981
CONSENSUS	GAGAGGAAGG	GAGAGG	AAAC	CCAGGGACTG	YTKYTCAGAA	CCAGGTTTCAG	2350
MOUSE DELTA DNA	GCGAAGCTGG	TTCTCTCAGA	GTTAGCAGAG	GCGCCCGACA	CTGCCAGCCT		2358
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	GCGAAGCTGG	TTCTCTCAGA	GTTAGCAGAG	GCGCCCGACA	CTGCCAGCCT		2400
MOUSE DELTA DNA	AGGCTTTGGC	TGCCGCTGGA	CTGCCTGCTG	GTTGTTCCCA	TTGCACTATG		2408
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	AGGCTTTGGC	TGCCGCTGGA	CTGCCTGCTG	GTTGTTCCCA	TTGCACTATG		2450
MOUSE DELTA DNA	GACAGTTGCT	TTGAAGAGTA	TATATTTAAA	TGGACGAGTG	ACTTGATTCA		2458
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	GACAGTTGCT	TTGAAGAGTA	TATATTTAAA	TGGACGAGTG	ACTTGATTCA		2500
MOUSE DELTA DNA	TATAGGAAGC	ACGCACTGCC	CACACGTCTA	TCTTGGATTA	CTATGAGCCA		2508
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	TATAGGAAGC	ACGCACTGCC	CACACGTCTA	TCTTGGATTA	CTATGAGCCA		2550
MOUSE DELTA DNA	GTCTTTCCTT	GAAGTAGAAA	CACAACTGCC	TTTATTGTCC	TTTTTGATAC		2558
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	GTCTTTCCTT	GAAGTAGAAA	CACAACTGCC	TTTATTGTCC	TTTTTGATAC		2600
MOUSE DELTA DNA	TGAGATGTGT	TTTTTTTTTT	CCTAGACGGG	AAAAAGAAAA	CGTGTGTTAT		2608
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	TGAGATGTGT	TTTTTTTTTT	CCTAGACGGG	AAAAAGAAAA	CGTGTGTTAT		2650
MOUSE DELTA DNA	TTTTTTGGGA	TTTGTAAGAA	TATTTTTCAT	GATATCTGTA	AAGCTTGAGT		2658
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	TTTTTTGGGA	TTTGTAAGAA	TATTTTTCAT	GATATCTGTA	AAGCTTGAGT		2700
MOUSE DELTA DNA	ATTTTGTGAC	GTTCAATTTT	TTATAATTTA	AATTTTGGTA	AATATGTACA		2708
HUMAN DELTA	-----	-----	-----	-----	-----		1981
CONSENSUS	ATTTTGTGAC	GTTCAATTTT	TTATAATTTA	AATTTTGGTA	AATATGTACA		2750

FIG.13F



Serial NO.. 09/163,931
Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA
PROTEINS AND FRAGMENTS"

MOUSE DELTA DNA AAGGCACTTC GGTCTATGT GACTATATTT TTTGTATAT AAATGTATTT 2758
HUMAN DELTA ----- 1981

CONSENSUS AAGGCACTTC GGTCTATGT GACTATATTT TTTGTATAT AAATGTATTT 2800

MOUSE DELTA DNA ATGGAATATT GTGCAAATGT TATTTGAGTT TTTTACTGTT TTGTTAATGA 2808
HUMAN DELTA ----- 1981

CONSENSUS ATGGAATATT GTGCAAATGT TATTTGAGTT TTTTACTGTT TTGTTAATGA 2850

MOUSE DELTA DNA AGAAATTCAT TTAAAAATA TTTTCCAAA ATAAATATAA TGAAC TACA 2857
HUMAN DELTA ----- 1981

CONSENSUS AGAAATTCAT TTAAAAATA TTTTCCAAA ATAAATATAA TGAAC TACA 2899

FIG.13G



Inventor(s): ISH-HOROWICZ ET AL
Title: "ANTIBODIES TO VERTEBRATE DELTA PROTEINS AND FRAGMENTS"

GFTWPGTFSLIIEALHTDSPD> 21
DLATENPERLISRLATQRHL> 41
TVGEEWSQDLHSSGRIDLKY> 61
SYRFVCDEHYYGEGCSVFCR> 81
PRDDAFGHETCGERGEKVCN> 101
PGWKGPYCTEPICLPGCDEQ> 121
HGFCDKPGECKCRVGWOGRY> 141
CDECIRYPGCLHGTCOOPWQ> 161
CNCOEGWGGLEFCNODLNYCT> 181
HHKPCKNGAIC*TNITGQG* 198
SYT*PSP*KNGGSLTDL* 213
ENSYSCTCPPGFYGKICELSAM> 235
TCADGPCFNGGRCSDSPDGG> 255
YSCRCPVGYSGFNCEKKIDY> 275
CSSSPCSNGAKCVDLGDAYL> 295
CRCQAGFSGRHCDDNVDDCA> 315
SSPCANGGTCRDGVNDF SCT> 335
CPPGYTGRNCSAPASRCEHA> 355
PCHNGATCHERGHRY*CECA> 374
RSYGGPN C*ELLPE*PPGP*> 391
VV*LLLGCAAVVVCVRLRLQKH> 412
RPPADP*RGETETMNNL*> 428

FIG. 14A



NCOREKDISVSIIG*TOIKNTN> 449
KKADFHGDH*ADKNGFKARYP* 469
VDYNLVODLKGDDTAVRDAHSKRDTK* 494
QPOGSSGEEKGTP*PTLR*GG* 514
I*RKRP*S*ST*SKD*T* 526
CVI*EV* 531

FIG. 14B